

PRODUCT:	WHYTHEAT K SPECIAL
PRODUCT CLASS:	REFRACTORY MONOLITHIC
TYPE:	60%ALUMINA CASTABLE (HIGH STRENGTH)
NATURE OF BOND:	HYDRAULIC
INSTALLATION:	VIBRATION CASTING

GENERAL PROPERTIES

MAX. SERVICE TEMPERATURE:	1600 °C
MAXIMUM GRAIN SIZE:	5 mm
WATER REQUIRED FOR CASTING:	11.0 – 13.0 %

CHEMICAL ANALYSIS, %

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Al ₂ O ₃	57.0 – 61.0	58.5	BIS 12107 Part 3
CaO	4.7 – 5.3	5.1	ASTM C 573
Fe ₂ O ₃	0.8 – 1.2	1.10	BIS 12107 Part 6

PHYSICAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Dry density, g / cc after drying at 110 °C / 24 hrs	2.05 – 2.20	2.12	BIS 10570
CCS, kg/cm ² after drying at 110 °C / 24 hrs	400 – 510	455	BIS 10570
after heating at 1100 °C / 3 hrs	200 – 300	240	BIS 10570
after heating at 1400 °C / 3 hrs	350 – 500	450	BIS 10570
% Retained on maximum size	0 - 5	0.8	BIS 1528 Part 14

THERMAL PROPERTIES

	RANGE	TYPICAL VALUE	TEST PROCEDURE
Refractoriness, Orton / °C		31 / 1683	BIS 1528 Part 1
PLC, % after heating at 1100 °C / 3 hrs	(- 0.4) to (+0.2)	-0.15	BIS 10570
after heating at 1550 °C / 3 hrs	(- 1.0) to (-2.2)	-1.70	BIS 10570

Packaging: 25 kg bags

Delivery State: Dry

Storage Life: Best till 9 months from the date of production, if stored in proper condition.

Note:

- (1) The data are current production averages. They can not be used as limits for Specification.